BITwave Pte Ltd

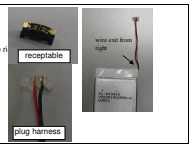
Address: 2 Ang Mo Kio Ave 12 Singapore 569707
Tel: 65-6484 3496 Fax: 65-6484 3495

Project: BS03D
Date: 05/03/2007
Version: 2.7

S/N	Comment	Pattern	Quantity	Components	1st Supplier	Manufacturer P/N	2nd Supplier	Manufacturer P/N	Remark
1	0R0	0402	11	R27, R25, R33, R38, R42, R44, R46, R47, C70, C71, L8	KOA	*RK73Z1ETTP*			
2	560 R	0402	2	R3, R4	KOA	*RK73B1ETTP561J*			
3	3.3k	0402	3	R28, R29, R48	KOA	*RK73B1ETTP332J*			
4	4.7 K	0402	1	R14	KOA	*RK73B1ETTP472J*			
5	470k	0402	1	R13	KOA	*RK73B1ETTP474J*			
6	27 K	0402	7	R2, R18, R19, R21, R22, R23, R24	KOA	*RK73B1ETTP273J*			
7	33 K	0402	1	R15	KOA	*RK73B1ETTP333J*			
8	47 K	0402	5	R16, R17, R20, R52, R53	KOA	*RK73B1ETTP473J*			
9	56 K	0402	1	R1	KOA	*RK73B1ETTP563J*			
10	100 K	0402	10	R6, R12, R31, R32, R34, R37, R49, R50, R51, R54	KOA	*RK73B1ETTP104J*			
11	1 M	0402	1	R5	KOA	*RK73B1ETTP105J*			
12	1 p 5	0402	1	C 28	MURATA	*GRM1555C1H1R5CZ01D*			
13	8 p 2	0402	2	C29 L4	MURATA	*GRM1552C1H8R2CZ01D*			
14	18 p	0402	3	C31, C33, C34	MURATA	*GRM1555C1H180JZ01D*			
15	22 p	0402	1	C21	MURATA	*GRM1555C1H220JZ01D*			
16	12p	0402	1	C32	MURATA	*GRM1555C1H120JZ01D*			
17	180 p	0402	1	C22	MURATA	*GRM1555C1H181JA01D*			
18	10 n	0402	2	C2, C9	MURATA	*GRM155R71H103KA88D*			
19	100 n	0402	10	C1, C5, C7, C23, C24, C25, C30, C44, C50, C62	YAGEO or MURATA	*C0402KRX7R7BB104 GRM155R61A104KA01D*			
20	390n	0603	2	C66, C67	MURATA	*GRM188R71C394KA88D*			
21	1 u	0603	5	C4, C8, C12, C26, C49	MURATA	*GRM188R61C105KA12D*			
22	4.7 u	0603	4	C3, C43, C57, C58	MURATA	*GRM188R60J475KE19D*			
23	10 u	ECAP	4	C6, C10, C27, C60	MURATA	*GRM21BR60A106KE19L*			
24									
25	1n0	0402	1	L3	TAIYO YUDEN	*HK1005 1N0S-T*			
26	2 n 7	0402	1	L6	MURATA	*LQG15HS2N7S02D*			
27	600 R	0603	1	L7	MURATA	*BLM18BD601SN1*			
28	4.7 u	INDUCT	1	L1	MURATA	*LQH32CN4R7M53L*			
29	12MHz DSX321SL	XTAL-X42	1	Y1	KDS	*DSX321G 12MHz 12pf +/- 15ppm*	JAS	*X42-12.000 12pf +/- 10ppm*	
30	32K768 MC146	XTAL	1	Y2	EPSON	*MC146 32.768kHz 12.5pF 20ppm*	SII	*SSPT 7 F*	
31	36MHz	XTAL-X42	1	Y3	MURATA	*CSTCZ36M0X12R*-B0*			
32	BC847BS	SC70	1	Q1	Lionex: Philips	*BC847BS*			
33									
34	74LVC1G04	SC70-5	1	U3	SerialMicro: TI	*SN74LVC1G04DCKR*	Lionex: Philips	*74LVC1G04GW*	3rd supplier:Yosun Manufacturer:Fairchild : NC7SZ04P5X
35	74LVC1G07	SC70-5	1	U11	SerialMicro: TI	*SN74LVC1G07DCKR*	Lionex: Philips	*74LVC1G07GW*	
36	74LVC1G32	SC70-5	2	U1, U10	SerialMicro: TI	*SN74LVC1G32DCKR*	Lionex: Philips	*74LVC1G32GW*	3rd supplier:Yosun Manufacturer:Fairchild : NC7SZ32P5X
37	BQ25012	RHL20	1	U14	SerialMicro: TI	*BQ25012RHLRG4*			
38	TPS73030	SOT23-5	1	U15	SerialMicro: TI	*TPS73030DBVR*	SII	*S-1200B30-M5T1G*	3rd supplier: Gagner Manufacturer: AAT: AAT3215IGV-3.0-T1
39	BT200	SOT23-6	1	U12	BITwave	*BT200*			
40	RF3505	VFBGA96	1	U4	Yosun	*RF3505G1-T13*	Yosun	*SW3500GIG1*	
41	SST39VF800-TFBGA48	TFBGA48	1	U5	Avnet: Spansion	*Am29SL400CT100RWAF*	SerialMicro: SST	*SST39WF400A-90-4IB3KE*	
42	ADSST-BTW2000	MBGA144	1	U6	Yosun	*ADSST-BTW2000*			
43	1PS76SB70	DIODE	1	D5	Lionex:Philips	*1PS76SB70*			
44	LED BLUE	HT-S91	1	D2	SOURCEONE	*HT-121NB*			
45	LED RED	HT-S91	1	D1	SOURCEONE	*HT-121USD*			
46	TLV320AIC23B	QFN28	1	U7	SerialMicro: TI	*TLV320AIC23BIRHDR*			
47	SW-PB	TACT	2	S1, S2	GAGNER	*IT-1186AU2*			
48	2.5mm jack	KM03011	1	J1	KUNMING	*KM03011*			
49	CON14	MOLEX5010141474	1	J2	WPI	*5010141474*			
50	USB_MINI_B	MINI-USB	1	J3	Molex	*675031020*	KUNMING	KM13100010922451	
51	DIELECTRIC ANT	ANT_7.8x3.6	1	A1	YAGEO	*CAN43111150026I1K*			
52	Battery connector (bundle with battery)		1	B	TCL	*ELCO:24 8005 002 100 867*			
53	Battery		1		TCL	*SP043043-01*			
	TOTAL:		**109**						

Battery wiring specification

	Description	Specification
1	Part num	SP043043-01
2	Connectors	plug harness + receptacle should be included
3	leadwire length	25mm
4	wire orientation on plug harness:	see pic on the right: red wire(+ve) on the left side, black wire(-ve) on the r
5	Wire thickness	AWG 28,AWG 30, AWG 32 (in running priority)
6	Wire exit point	From right
7	Protection circuit(PCM)	To be determined by Clarion



10/05/06:
1. Item 50, change part number from KM13112W0 to KM13106 or KM13109.
2. Item 47, IT-1186AP2 or IT-1186AU2.

23/05/06:
1. Item 49, change part number from 5008821470 to 5010141474.

12/06/06:
1. item 31, change part number from "X42 36MHz 18pf 30ppm" to "CSTCZ36M0X".

19/06/2006:
1. ITEM 52, add battery connector.
2. item 38, add 2nd supplier.

22/06/2006:
1. Item 10, add R54 100k.
2. Item 19, add C1 100nF.
3. Item 1, add R10 and L8 0R0. remove R27.
4. Item 27, add L2.
5. Item 7, remove R36.
6. Item 29, change crystal load capacitor value from 18pF to 12pF.

23/06/2006:
1. Modify some part number as vendor recommended.
2. Item 52, modify part number as free bundled with battery.
3. Item 53, add Battery.
4. Add TCL supplier in Supplier Contact sheet.
5. Add Battery wiring specification.
6. Item 44 and 45, change LED from top view type HT-S91 series to side view type HT-121 series.

26/06/2006:
1. Added more parameters for battery
2. Item 31, add part number detail.
3. Item 33, Change 1st Supplier and part number.
4. Item 15, remove C40 and C41.

29/06/06:
1. Item 13, 8.2pF part num changed from GRM1555C1H8R2CZ01D to GRM1552C1H8R2DZ01D
2. Item 34,36, new supplier added
3. Item 50 change from KM13106 to KM13100010922451

30/06/06:
1. Remove R9 from item 1 (0R0).
2. Remove R8 from item 6 (27K).
3. Remove Q2 in item 33 (2N7002).

05/07/06:
1. Item 13, part num changed from GRM1552C1H8R2DZ01D to GRM1552C1H8R2CZ01D
2. Item 37, part num changed from BQ25012RHLR to BQ25012RHLRG4

14/07/06:
1.Item 11, add R5 to 1M ohm

10/08/06:
1. Item 30, added 2nd supplier

17/08/06:
1. Item 13, change value L4 from 1n2 (item 24) to 8p2 (item 13).

15/09/06:
1. Item 38, add 2nd supplier and part number.

02/11/06:
1. Item 25, change part number from LQG15HS1N8S02D (Murata) to HK1005 1N8S-T (TAIYO YUDEN).

10/11/06:
1. Update this BOM for PCB V2.1.
2. Item 10, add R51 to 100k.
3. Item 36, add U1 to 74LVC1G32.

11/12/06:
1. Item 41, add Spansion flash Am29SL400CT100RWAF.
2. Item 40, change part number from SW3500 to RF3505.
3. Item 50, add supplier Molex - part num 0675031020

18/12/06:
1. Item 25, change value from 1n8 to 1n0. New Part.

05/03/07:
1. Item 27, remove L2 .
2. Item 1, remove R10 and add R27.
3. Item 11, remove R21, R22, R23, R24.
4. Item 6, add R21, R22, R23, R24.